

Department of Mathematics and Computer Science

Friday, November 10, 2017, 4:10 pm

COLLOQUIUM TALK

Speaker: Scott Ahlgren (UIUC)

Old Main 2231

Partitions, smallest parts, and modular forms

Abstract:

The partition function is a central object in combinatorics and number theory, and its fascinating properties have been studied for centuries. A fundamental tool in many of these studies is the theory of modular forms. The smallest parts function is a more recent object of study which is related in similar ways to the theory of mock modular forms.

I will describe these connections and will discuss recent advances in understanding these functions from both an arithmetic and an analytic perspective.

SNACKS IN FACULTY LOUNGE AT 3:30 PM.
EVERYONE WELCOME (EVEN IF YOU ARE UNABLE TO ATTEND THE TALK)
